

MATERIALS SAFETY DATA SHEET

SUNNILAND CORPORATION: P.O. BOX 1697
SANFORD, FL 32771

DATA SHEET NO. D-01
DIVISION L & G
ISSUE DATE 11/23/84
ISSUED BY C.L.C.
SUPERSEDES ISSUE OF

CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY
TELEPHONE NO: 800-424-9300; DISTRICT OF
COLUMBIA: 202-483-7616

NON-TRANSPORTATION EMERGENCY NO: (Poison Control Center)
Tampa FL Regional 1-800-282-3171

PRODUCT NAME: Dursban 2E

PRODUCT CODE NUMBER: EPA Reg. No. 9404-66

CHEMICAL FAMILY: Organophosphates

CHEMICAL NAME & SYNONYMS: O,O-diethyl O-(3,5,6,-trichloro-2-pyridyl) Phosphorothioate

CHEMICAL FORMULA: C 9 H 11 Cl 3 NO 3 PS

TRADE NAME & SYNONYMS: Dursban--Chlorpyrifos

II HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQ., SOL. OR GASES	%	CURRENT TLV (UNITS)
Dursban Technical (Chlorpyrifos)	24.64	STEL 0.6 mg/m 3
Aromatic Petroleum Distillate	53.83	100 ppm
Inert Ingredients: Emulsifiers and related products	21.53	N/E

III PHYSICAL DATA

APPEARANCE (SOLID, LIQ., GAS)	MOLECULAR WEIGHT	MELT POINT	SPECIFIC GRAVITY
Liquid	N/E (Tech 350.6)	N/A	0.9755
VAPOR DENSITY (AR-1)	COLOR	BULK DENSITY	BOILING POINT
N/A	Yellow Amber		300 deg. F
VAPOR PRESSURE	SOLUBILITY	ODOR	% VOLATILE BY VOLUME
N/E	Emulsifiable in H 2 O	Organophosphate & Solvent	N/E

IV FIRE & EXPLOSION DATA

FLASH POINT F deg. (method used)	FLAMMABLE LIMIT	EXTINGUISHING MEDIA
105 deg. F TCC	N/A	CO 2 Water Foam, Fog; Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES

Foam systems preferred. Use self contained air supply. Violent eruption of containers may occur from intense outside source of heat. Toxic irritating gases may be formed. Rapid UNUSUAL FIRE OR EXPLOSION HAZARDS: Decomposition at 160 - 200 deg. C. Evacuate people downwind. Does not contain explosive ingredients. Solvent presents flash fire possibilities.

V TOXICITY DATA

LD50, ORAL (INGESTION)	LD50, DERMAL (SKIN CONTACT)	INHALATION
950 mg/kg Male Rate	Rabbit--4,000 mg/kg	TWA 0.2 mg/m 3
mg/kg	mg/kg	
FISH, LC50, LETHAL CONCENTRATION.	TLV (UNITS) (THRESHOLD LIMIT VALUE).	SKIN IRRITATION
N/E	See Above	Moderate reversible irritation.

EFFECTS TO EYE
Potential Corneal injury: Heal in 1-2

EFFECTS TO LUNG

OTHER

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE: If Swallowed--Call a physician or Poison

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE: INHALATION Move subject to fresh air
EYE & SKIN CONTACT: Flush eyes with lge. amount of water for at least 15 min. Consult a physician if
irritation persist. Wash affected skin areas with soap & water. INGESTION: Induce vomiting immediately
giving 2 glasses of water to drink & sticking finger in throat. Call a physician. Never give anything by
mouth to an unconscious person. EFFECTS OF OVEREXPOSURE: Exposure to liquid/misc. will cause irritation
of eyes, nose & throat. Repeated or prolonged contact with liquid will cause skin irritation and
inflammation of the retina. Inhalation of mist that contain manganese & in some cases zinc can cause
progressive nausea and weakness.

ETU, a trace contaminant in Dithane, causes tumors and birth defects in test animals. There is no
evidence from animal feeding studies or human experience that Dithane induces tumors or birth defects.

VI REACTIVITY DATA

STABILITY CONDITIONS TO AVOID
Stable Avoid excessive heat.

POLYMERIZATION CONDITIONS TO AVOID
Will not occur

INCOMPATIBILITY (MATERIALS TO AVOID) *
Oxidizing materials, acids.

HAZARDOUS DECOMPOSITION PRODUCTS

VII SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike & contain spill with inert material
(sand, earth, etc.) & transfer liquid & solid diking material to separate containers for recovery or
disposal. Remove contaminated clothing & wash affected skin area with water. Wash clothing before
re-use. Keep spill out of all sewers & open bodies of water. Mn or Zn EBDC's are soluble in alkali's
They are bacteriostatic. They are biodegradable at low concentrations.

WASTE DISPOSAL METHOD: If practical, lq. Sols. of material should be recovered for use. Lq. am'ts may be
may be disposed of in a "secure" landfill. Small am'ts. may be landfilled according to local, state &
federal regulations. Rinse out empty containers with water, directing the wash to a sanitary or chemical
sewer.

VIII SPECIAL PROTECTION DATA

RESPIRATOR TYPE: Wear suitable NSHA/NIOSH approved respirator for dust concentrations encounter.

EYE PROTECTION: Chemical splash goggles GLOVES: Impervious

OTHER PROTECTIVE EQUIPMENT: Impervious clothing, eye wash facility, emergency shower.

IX SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE: AVERAGE SHELF LIFE
MIN: 40 deg. F MAX: 100 deg. F

SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE):
Keep away from heat sources.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store inside a cool well ventilated area. Keep container closed when not in use. Keep from freezing.

X SHIPPING DATA

D.O.T. SHIPPING NAME: Fungicide,
Agriculture, liquid.

TECHNICAL SHIPPING NAME: DURSBAN 2E

D.O.T. HAZARD CLASSIFICATION:
PRIMARY: N/A

SECONDARY:

D.O.T. LABELS REQUIRED:
None

FREIGHT CLASSIFICATION:

REASON FOR ISSUE: M.S.D.S Program

INITIATED BY : CLYDE L. CLINE, ASS'T. MGR. OPERATIONS

APPROVED BY: H.R. McLANE, TOXICOLOGY

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